PRODUCT INFORMATION

Target	SSTR2
Synonyms	SS-2-R; SS2-R; SS2R; SST2
Description	Human SSTR2 full length protein membrane nanoparticles (MNPs)
Delivery	In Stock
Uniprot ID	P30874
Expression Host	HEK293
Protein Families	GPCR
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length SSTR2 Protein has a MW of 41.2 kDa
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Somatostatin acts at many sites to inhibit the release of many hormones and other secretory proteins. The biologic effects of somatostatin are probably mediated by a family of G protein-coupled receptors that are expressed in a tissue-specific manner. SSTR2 is a member of the superfamily of receptors having seven transmembrane segments and is expressed in highest levels in cerebrum and kidney.
Usage	Research use only
Conjugate	Unconjugated

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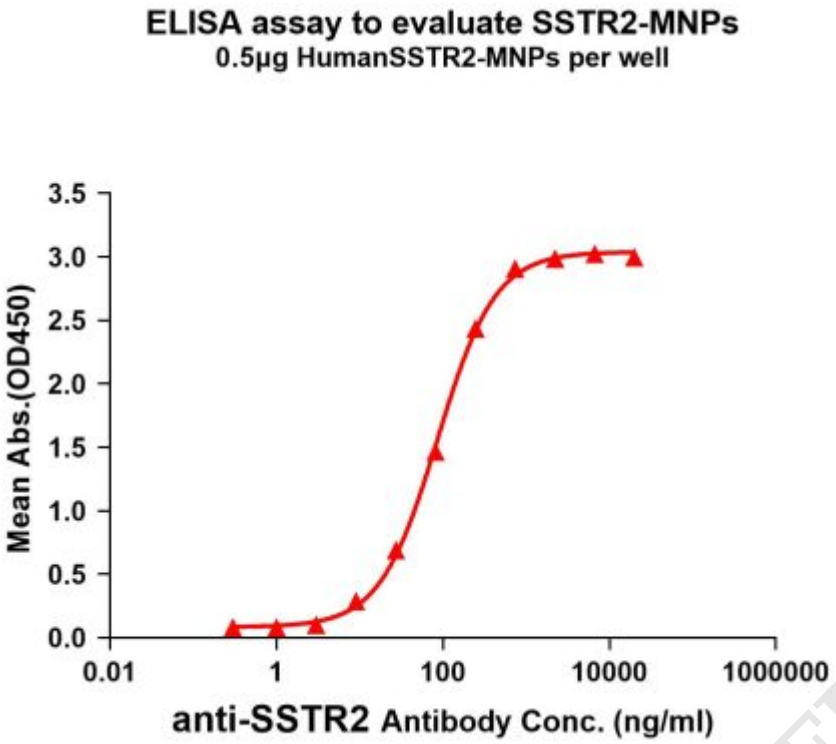


Figure1. Elisa plates were pre-coated with 0.5μg/per well purified human SSTR2 full length membrane nanoparticles. Serial diluted anti-SSTR2 monoclonal antibody (BME100127) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-SSTR2 monoclonal antibody binding with SSTR2 full length membrane nanoparticles is 86.2ng/ml.

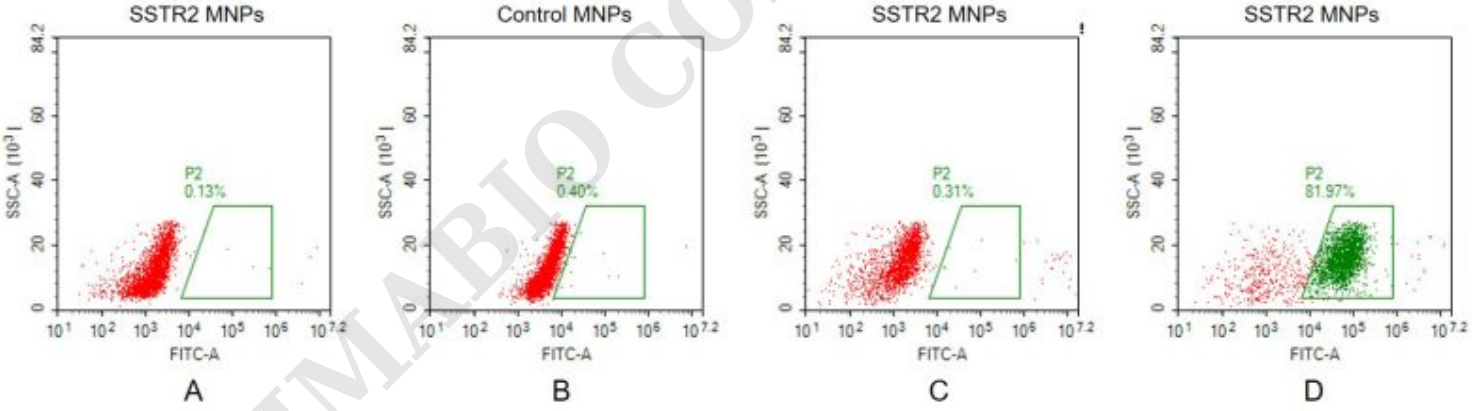


Figure2. FACS analysis of SSTR2 MNPs
A. Negative Control 1: SSTR2 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody.
B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-SSTR2 antibody (BME100127) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.
C. Negative Control 3: SSTR2 full length membrane nanoparticles samples were stained with anti-GPRC5D antibody (an irrelevant antibody) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.
D. SSTR2 full length membrane nanoparticles samples were stained with anti-SSTR2 antibody (BME100127) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.

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